

HP Jetdirect en3700

*fast ethernet external print server for network
capable Hi-Speed USB 2.0 peripherals*

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Chapter 1

Introduction

General product information

The HP Jetdirect en3700 is an external print server with USB 2.0 connection. It plugs into the USB port of printers (and multifunction peripherals) to provide a network connection for those printers.

(A label on the end of the product's box lists printers that are tested and supported. Newer models may also be supported.)

The print server connects to an Ethernet (IEEE 802.3i 10Base-T) or Fast Ethernet (IEEE 802.3u 100Base-TX) network, attached at the RJ-45 connector using twisted-pair cabling.

The HP Jetdirect en3700 offers all the features of the HP Jetdirect 310x external print server, plus additional USB 2.0 high-speed connection functionality.

The en3700 print server supports both peer-to-peer and client/server printer networking under TCP/IP; it supports peer-to-peer printer networking under IPX/SPX (direct mode), Apple EtherTalk, and LPD printing. Operating system support includes Windows (98, 2000, ME, NT 4.0, and XP) and MacOS (v 9.04 and later). See the section on specifications for details of which operating systems support which protocols.

The en3700 print server includes all the protocol support of the 310x. These protocols are, in various combinations, supported on these operating systems: Windows (98, 2000, ME, NT 4.0, and XP), MacOS, Novell NetWare, HP-UX, Solaris (on SPARC systems), SCO UNIX, LINUX, IBM AIX, MPE-IX, and Artisoft LANtastic. See the section on specifications for details of which operating systems support which protocols.

The print server includes an embedded Web server that allows remote management through a Web browser.

The embedded Web server, which allows you to monitor and manage the print server remotely, requires Microsoft Internet Explorer 4.0 or later, or Netscape Navigator 5.0 or later.

See the specifications section for more details on the print servers.

Contents of the product package

The HP Jetdirect en3700 external print server includes:

- print server module
- power module
- USB cable
- HP Jetdirect CD (includes installation software, manuals, and troubleshooting)
- *Startup Guide* poster

Chapter 2

Installing the print server

Overview of installation

Install hardware

Summary: To connect the printer to the network using the HP Jetdirect en3700 external print server, you will

- connect the print server to the network with a network cable,
- connect the print server to the printer with the included USB cable,
- plug in the power adapter, and
- print a configuration (self-test) page.

Use the instructions at either of the following locations:

- The printed *Startup Guide* poster that is supplied with the print server.
- On this web page below—starting with “Steps for installing the print server hardware.”

Install software

- **For the basic procedure** to set up each Windows (98, 2000, XP, ME, NT 4.0) computer for printing on the networked printer, refer to the Network Basics section of the HP JetDirect en3700 in your CD-ROM documentation.

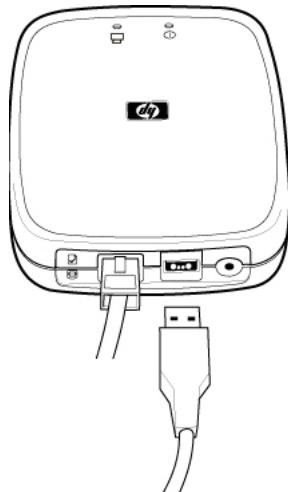
- This default procedure involves installing printer drivers and other software and configuring network parameters. You will use the installation software on either the CD-ROM supplied with your printer or on the Jetdirect CD-ROM supplied with your print server, depending on your printer model.
For more details see www.hp.com/support/network-printer-CD.
- For the LPR/LPD (Line Printer Daemon) alternative printing method:
See the LPD topic in the HP Jetdirect Administrator's Guide.
- For Macintosh setup (MacOS 8.6 or later), read the Jetdirect CD-ROM on a Macintosh system, select the file Network Printing.htm, and follow the instructions for setting up network printing.

Steps for installing the print server hardware

1. Attach the print server to a 10Base-T (Ethernet) or 100Base-TX (Fast Ethernet) local area network by plugging a network cable into the RJ-45 connector on the back of the print server.

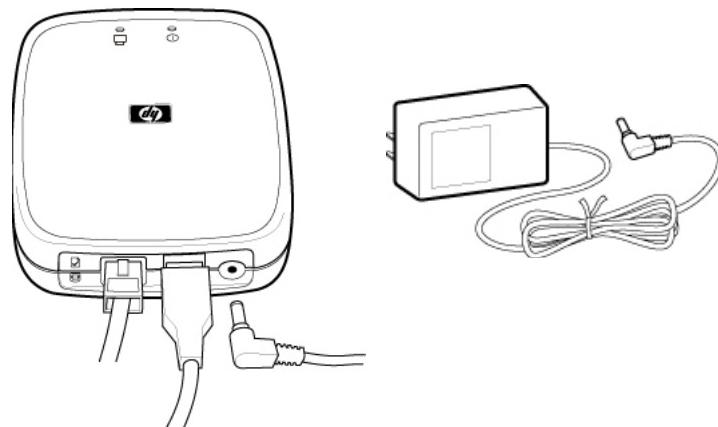


2. Attach the print server to the printer by plugging the Universal Serial Bus (USB) cable—shipped with the print server—into the USB connector on the back of the print server and into the USB connector on the printer.



- **Caution!** Unsupported USB Devices include:
 - HP 4135A Jetdirect Connectivity Card
 - any USB hub
 - any USB-to-parallel converter
 - any USB cable extender

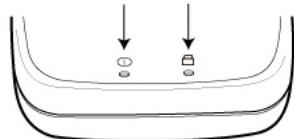
3. Plug the DC power cord from the power module—shipped with the print server—into the power connector on the back of the print server. Plug the power module into a power outlet.



- **Caution!** Do not use the power module shipped with your print server with any other products!
4. Verify the print server's LEDs:
 - The 10 or 100 LED on the rear end of the print server lights green to indicate the connection speed.



- The power/status LED on the top front begins blinking and within 15 seconds is solid green, to indicate the server passed its self-test.



- A solid green USB LED on the top front indicates a good USB connection, as illustrated above.

If your LEDs are *not* solid green, refer to chapter 4, Troubleshooting.

5. Verify the connection with the printer by printing a configuration (test) page:

Briefly press and release the test button on the back of the print server. The page should soon emerge from the attached printer.



If the page does not appear on the printer, or if it is unreadable, refer to chapter 4, Troubleshooting.

6. You can mount the print server on a wall, using the keyhole slots on the underside of the print server.

Chapter 3

Configuring and managing the print server on your network

This section introduces the tools you can use to configure and manage your print server, and the protocols you can set up.

- Basic configuration, as part of the installation process
- Changing and managing the configuration
- List of protocols for printing and managing
- Useful techniques:
 - Printing a configuration page
 - Setting a new IP address
 - Resetting to factory-default settings

Basic configuration

- Set up each Macintosh running MacOS (9.04 or later). Read the Jetdirect CD-ROM on a Macintosh system, select the file **Network Printing.htm**, and follow the instructions for setting up network printing.
- Set up each Windows computer for printing on the networked printer by using the *HP Install Network Printer Wizard*.

This basic procedure involves installing printer drivers and other software, configuring network parameters, and setting up the print path. You will use the installation software on either the CD-ROM supplied with your printer or on the HP Jetdirect CD-ROM supplied with your print server, depending on your printer model. This is explained in the software instructions on your *Quick Start Guide* poster supplied with your print server, or you can also see <http://www.hp.com/support/network-printer-CD>.

To use the wizard to install the networked printer on this computer, return to the initial screen for this CD, select the [Install] button, and follow the instructions there. Help is included. When finished there, this computer is ready to use the printer.

After using the wizard, you can use the additional tools listed below to make configuration changes and additions and to monitor the printer.

NOTE: Making network address changes might break the print path set up by the wizard.

Changing and managing the configuration

Your comprehensive reference is the HP Jetdirect Administrator's Guide. You will find the following among the topics listed in its contents panel:

- Security features
- LPD printing
- FTP printing
- Other software tools (for a variety of operating environments)
- Embedded web server

Embedded web server

Each Jetdirect print server contains an embedded web server, a tool for configuring and managing the print server. This acts like a small web site that allows you to configure various parameters of the print server, such as an IP or IPX address. In addition, a simple network scanning facility, sometimes called "Web Scan", is available through the embedded web server if your print server is attached to a supported MFP (multifunction peripheral) or All-in-One device. Refer to the section in the Jetdirect Administrator's Guide on the embedded web server.

You use your standard web browser for access to the embedded web server's functions. Open your browser and enter the print server's IP address as the URL. (Most browsers will take a simple IP address; if yours doesn't, insert `http://` before the IP address.) If you don't know your print server's IP address, print a configuration page. The IP address will be listed in the TCP/IP section.

The embedded web server's screens should be reasonably self-explanatory, and a little exploration will probably show you what you need to know. (For full details, refer to the Jetdirect Administrator's Guide.) All entries show the current values of the print server's parameters, and you can change those values by entering new ones (if your network administrator has allowed full access to them). Note that if you change the print server's IP address, you will lose the connection to the print server. You can reconnect by pointing your browser at the new IP address.

List of protocols

The following protocols, and protocol-specific configurations and tools, are supported by the print server. Use the HP Jetdirect Administrator's Guide as your reference for protocols.

- **TCP/IP:**
 - **DHCP:** a tool for autoconfiguration
 - **BOOTP:** a tool for autoconfiguration
 - **TFTP:** a tool for extended autoconfiguration
 - **RARP:** a tool on some systems for configuring an IP address
 - **Telnet:** a tool for configuration and monitoring the print server
 - Moving the print server to another IP network
- **LPD** (line printer daemon) printing
- **FTP** printing
- **IPP** printing
- **IPX/SPX** (In most cases, parameters do not need to be set on the print server.)

NOTE: The print server supports both IPX/SPX direct mode (peer-to-peer) and IPX/SPX in client/server mode with Novell NetWare servers.

- **DLC/LLC:** Can be enabled or disabled; otherwise there are no parameters to set on the Jetdirect module.
- **AppleTalk:** Printer Name and Printer Zone parameters can be set up using the HP LaserJet Utility for MacOS.
- **SNMP:** (Simple Network Management Protocol) used with your configuration and management tools. The Jetdirect-specific MIB (Management Information Base) is MIB-II compliant; it is available upon request from HP Support.

Useful Techniques

- Printing a configuration page
- Setting a new IP address
- Resetting to factory-default settings

Printing a configuration page

Briefly press and release the test button on the rear end of the print server. The page should soon emerge from the attached printer. Refer to “Interpreting the configuration page and diagnosing problems” in chapter 4, Troubleshooting.



Setting a new IP address

The procedure depends on whether you are changing the address to one on the same network or on another network (and need to ensure the address doesn't conflict on the new network).

If you are changing to an address on the same IP network:

1. Open your browser and enter the print server's current IP address as the URL. (You may need to precede it with `http://`). If you don't know the current IP address, find it by printing a configuration page.
2. Click on the Networking tab in the page that then appears in the browser.
3. On the Networking page, make sure that TCP/IP is selected.
4. Set the IP Configuration Method to Manual.
5. Enter the new IP address in the IP Address box.
6. Since you will lose your connection to the embedded web server when you change the address, you can re-establish the connection by entering the new IP address in your browser's URL field.

If you are moving the print server to another IP network:

1. First, do one of the following:
 - Change the IP address to one usable on the new network: Verify the **Subnet Mask** and **Default Gateway** are usable with the new network, or fix them.
 - Erase the current IP address and configure another address after you are installed on the new network. Verify the **Subnet Mask** and **Default Gateway** are usable with the new address, or fix them.
2. Then reset the print server to factory defaults. See “Performing a cold reset (to factory defaults)” below.
3. Finally, do one of the following:
 - If the print server was configured using BOOTP or DHCP, edit the appropriate system files with updated settings. If the current BOOTP server is not reachable, you may need to locate and configure a different BOOTP server.
 - If the IP address and other parameters were manually set, then manually reconfigure them. Verify the **Subnet Mask** and **Default Gateway**.

Performing a cold reset (to factory defaults)

Once you configure the print server, the configuration settings are retained in memory unless you manually reset them to factory defaults, as follows:

1. Unplug the power module from the back of the print server.
2. While holding down the test button on the back of the print server, plug the power module back into the print server and continue to hold down the test button for about five seconds. Any user-configured settings will be erased.

Chapter 4

Troubleshooting

Help-yourself troubleshooting

For information to solve problems and get your print server working, refer to the Troubleshooting section in the HP Jetdirect CD-ROM en3700 User Guide for interactive step-by-step troubleshooting procedures.

Interpreting the configuration page

The configuration page (also called a self-test page or configuration plot) for a print server displays messages, network statistics, and status for the print server. To print a configuration page, press the test button on the print server.

An HP Jetdirect configuration page can also be viewed over the network from a management utility (such as HP Web Jetadmin), or by accessing the embedded web server on the HP Jetdirect print server.

Below is a sample for the en3700 external print server.

- A general description of each section is given below the sample pages.
- For a specific description of each entry on your page, see the HP Jetdirect Administrator's Guide. Find the HP Jetdirect Configuration Page topic in its contents panel.

HP JetDirect Configuration Page (English - ASCII)

----- General Information -----

Status: I/O Card Ready

Model Number: J7942A
Hardware Address: 0001E6920108
Firmware Version: VAG17LU
LAA: 0001E6920108
Port Config: 10BASE-T HALF
Manufacturing ID: G13*****00_G13
Date Manufactured: 02/2003

----- USB Printer Information -----

Device Name: HP LaserJet 1220N
Manufacturer: Hewlett-Packard
Serial Number: 00CNBBQS02115
Communication Mode: IEEE 1284.4
USB Speed: Full Speed

----- Security Settings -----

Admin Password: Not Specified
Secure Web: HTTPS Optional
Cert Expires: 2007-01-01 00:00 UTC
SNMP Versions: 1;2
SNMP Set Cmty Name: Not Specified
Access List: Not Specified

----- Network Statistics -----

Total Packets Received: 131
Unicast Packets Received: 128
Bad Packets Received: 0
Framing Errors Received: 0
Total Packets Transmitted: 226
Unsendable Packets: 0
Transmit Collisions: 2
Transmit Late Collisions: 0

----- TCP/IP -----

Status: Ready

Host Name: NPI920108
IP Address: 13.100.1.21
Subnet Mask: 255.0.0.0
Default Gateway: 13.100.1.21
Config By: BOOTP
BOOTP Server: 13.100.1.2
TFTP Server: Not Specified
Config File: Not Specified
Domain Name: Not Specified
DNS Server: Not Specified
WINS Server: Not Specified
Syslog Server: Not Specified
Idle Timeout: 270 sec
Web JetAdmin URL: Not Specified

page 1 of 2

----- IPX/SPX -----
Status: Initializing

Primary Frame Type: Auto Select

Network Frame Type Rcvd

----- Novell/NetWare -----

Status: 16

NOT CONFIGURED

Node Name: NPI920108

NetWare Mode: Queue Server

NDS Tree Name:

NDS Context:

SAP Interval: 60 sec

Attached Server:

----- AppleTalk -----
Status: Ready

Name: HP LaserJet 1220

Zone: *

Type 1: HP LaserJet

Type 2: LaserWriter

Network Number: 65281

Node Number: 4

----- DLC/LLC -----

Status: Ready

General Jetdirect Information: Provides general print server status and identification information.

USB Printer Information: Provides the USB 2.0 printer class descriptors for the device connected to the port.

Security Settings: Provides the current values for various security and access control parameters for the print server.

Network Statistics: Provides the current values for various network parameters monitored by the print server.

TCP/IP Protocol Information: Provides the current status and parameter values for the TCP/IP network protocols.

IPX/SPX Protocol Information: Provides the current status and parameter values for the IPX/SPX network protocols.

Novell/NetWare Protocol Information: Provides the current status and parameter values for the Novell NetWare network protocol.

AppleTalk Protocol Information: Provides the current status and parameter values for the AppleTalk network protocols.

DLC/LLC Protocol Information: Provides the current status and parameter values for the DLC/LLC network protocol.

Interpreting the lights on the print server

<u>Power/Status Light</u>	
Light Behavior	Description
Off	Print server is not receiving power.
On solid green	Print server is on and ready.
Blinking slowly (green)	Print server receiving power but not ready; self-test may still be in process. Or, no network connection; check the 10 and 100 Link lights.
Blinking slowly (amber)	Fault occurred during self-test or operation. Contact HP.
Blinking quickly (green)	Print server is processing the configuration page.
Flickering irregularly (green)	Indicator of network activity.

<u>10 or 100 Link Lights</u>	
Light Behavior	Description
Off	No network connection.
On solid green	Network connection is established at 10 Mb/s or at 100Mb/s.

<u>USB Light</u>	
Light Behavior	Description
Off	USB is not operational. This is OK before the print server finishes starting up. After startup completes, this could indicate a faulty print server.
On solid green	USB is enabled and ready for use. This begins before the USB cable is connected.
Blinking (green)	Software fault occurred for the firmware. There is a valid USB device and connections, but the device is not supported. Make sure the attached device is a printer.
Blinking (amber)	<p>Might be a hardware fault (for example, a short-circuit, faulty cable, or a printer drawing too much power).</p> <p>To verify, disconnect the USB cable at the print server. Switch on the printer if it is off. Power cycle the print server (unplug it and plug it back in). Then reconnect the USB cable. If the USB light is now green and steady, then no problem remains.</p> <p>Otherwise, if the USB light is still blinking amber, then there may be a faulty component. Try these steps to determine which component might be causing the problem:</p> <p>Detach the USB cable and power cycle the print server (unplug it and plug it back in). If the USB LED is green and steady, then the print server is OK. If it is blinking amber, then the print server is faulty.</p> <p>Try reconnecting the USB cable to the print server only, and power cycle the print server (unplug it and plug it back in). If the USB LED is green and steady, then the cable is also OK. If it is blinking amber, then the cable may be faulty.</p> <p>Power cycle the printer and reconnect the USB cable to the printer. If the USB LED is green and steady, then the printer is also OK. If it is blinking amber, then the printer may be faulty.</p>

Resetting print server to factory defaults (cold reset)

Once you configure the HP external print server, the configuration settings are retained in memory unless you manually reset them to factory defaults.

To reset the print server configuration to factory defaults, follow these steps:

1. Unplug the power module from the back of the print server.
2. While holding down the test button on the back of the print server, plug the power module back into the print server and continue to hold down the test button for about five seconds. Any user-configured settings will be erased.

When the procedure is done, the print server responds exactly like it was fresh from the factory.

Chapter 5

Getting Support and Service

Help-yourself troubleshooting

For information to solve problems and get your print server working, refer to the Troubleshooting section in the HP Jetdirect CD-ROM en3700 User Guide for interactive step-by-step troubleshooting procedures.

Call HP: HP support by phone

Highly trained technicians are ready to take your call.

NOTE: Telephone fees are the responsibility of the caller. Rates may vary. Contact your local telephone company for current rates.

For the most up-to-date HP support telephone numbers worldwide, visit Customer Support (<http://www.hp.com/cpsosupport/guide/psd/expectations.html>) to access a list of regional telephone numbers.

In the USA and Canada, the support telephone number for HP Jetdirect products is:
1-800-HPINVENT (1-800-474-6836).

WWW: HP support online

Refer to our support pages on the HP Web site www.hp.com/support/net_printing to help solve your issues and answer your questions about your HP Jetdirect print server, 24 hours a day, 7 days a week.

Software, driver, and firmware image upgrades

Hewlett-Packard offers downloadable electronic upgrades for some HP Jetdirect print servers with internal flash memory. The electronic upgrades are available on the Web and various online services.

Current information about drivers, software versions, and HP Jetdirect firmware images are available from the following:

Table 5-1.

World Wide Web	Access HP's online support at http://www.hp.com/support/net_printing
America Online	Receive drivers and upgrades by downloading them to your computer from the HP Forum.
HP Distribution Center	Order drivers and upgrades for HP printers by calling the HP Distribution Center at 805-257-5565 (USA only).
FTP Site	Download printer drivers and upgrades from HP's anonymous FTP site at ftp://ftp.hp.com/pub/networking/software

WWW: HP user forums

Go online, anytime, and you'll also find helpful user forums—a great source of ideas and suggestions for using your HP Jetdirect print server. You can access the user forum for network printing from http://welcome.hp.com/country/us/eng/gateway_forums.htm. (These forums are presented in English only.)

Getting Warranty Service

Hewlett-Packard Limited Global Warranty Statement

Table 5-2.

HP Product	Duration of Warranty
HP Jetdirect en3700 external print server for USB 2.0	One (1) year

1. HP warrants to you, the end-user customer, that HP hardware, accessories and supplies will be free from defects in materials and workmanship after the date of purchase, for the period specified above. If HP receives notice of such defects during the warranty period, HP will, at its option, either repair or replace products that prove to be defective. Replacement products may be either new or equivalent in performance to new.
2. HP warrants to you that HP software will not fail to execute its programming instructions after the date of purchase, for a period of NINETY (90) DAYS, due to defects in material and workmanship when properly installed and used. If HP receives notice of such defects during the NINETY (90) day period, HP will replace software that does not execute its programming instructions due to such defects.
3. HP does not warrant that the operation of HP products will be uninterrupted or error free. If HP is unable, within a reasonable time, to repair or replace any product to a condition as warranted, you will be entitled to a refund of the purchase price upon prompt return of the product.
4. HP products may contain remanufactured parts equivalent to new in performance or may have been subject to incidental use.
5. Warranty does not apply to defects resulting from (a) improper or inadequate maintenance or calibration, (b) software, interfacing, parts or supplies not supplied by HP, (c) unauthorized modification or misuse, (d) operation outside of the published environmental specifications for the product, or (e) improper site preparation or maintenance.
6. HP's limited warranty is valid in any country/region or locality where HP has a support presence for this product and where HP has marketed this product. The level of warranty service you receive may vary according to local standards. HP

will not alter form, fit or function of the product to make it operate in a country/region for which it was never intended to function for legal or regulatory reasons.

7. TO THE EXTENT ALLOWED BY LOCAL LAW, THE ABOVE WARRANTIES ARE EXCLUSIVE AND NO OTHER WARRANTY OR CONDITION, WHETHER WRITTEN OR ORAL, IS EXPRESSED OR IMPLIED AND HP SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, SATISFACTORY QUALITY, AND FITNESS FOR A PARTICULAR PURPOSE. Some countries/regions, states or provinces do not allow limitations on the duration of an implied warranty, so the above limitation or exclusion might not apply to you. This warranty gives you specific legal rights and you might also have other rights that vary from country/region to country/region, state to state, or province to province.
8. HP will be liable for damage to tangible property per incident up to the greater of \$300,000 or the actual amount paid for the product that is the subject of the claim, and for damages for bodily injury or death, to the extent that all such damages are determined by a court of competent jurisdiction to have been directly caused by a defective HP product.
9. TO THE EXTENT ALLOWED BY LOCAL LAW, THE REMEDIES IN THIS WARRANTY STATEMENT ARE YOUR SOLE AND EXCLUSIVE REMEDIES. EXCEPT AS INDICATED ABOVE, IN NO EVENT WILL HP OR ITS SUPPLIERS BE LIABLE FOR LOSS OF DATA OR FOR DIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFIT OR DATA), OR OTHER DAMAGE, WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE. Some countries/regions, states or provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

THE WARRANTY TERMS CONTAINED IN THIS STATEMENT, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT OR MODIFY AND ARE IN ADDITION TO THE MANDATORY STATUTORY RIGHTS APPLICABLE TO THE SALE OF THIS PRODUCT TO YOU.

Local warranty statements

Australia and New Zealand

For consumer transactions in Australia and New Zealand: The warranty terms contained herein except to the extent lawfully permitted, do not exclude, restrict, or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

Argentina

Certificado de Garantía: vea el folleto de garantía que acompaña al paquete del producto.

México

Póliza de Garantía: vea el folleto de garantía que acompaña al paquete del producto.

Getting warranty service

For your records, please retain your original proof of purchase. Record the product number and serial number. Your product number is on a label on the bottom of the print server, for example, “J7942A”. The serial number is on the same label.

Your authorized dealer

If you encounter difficulty, begin by contacting the person who sold the HP Jetdirect print server to you. Your HP Authorized Dealer will be familiar with your requirements and can provide assistance.

HP support for warranty service

For warranty service on HP Jetdirect products, call HP support. See “Call HP: HP support by phone” mentioned earlier in this chapter or visit http://www.hp.com/support/support_assistance. The HP support representative will help you with troubleshooting, and advise you on warranty service. When calling, please have the following information ready:

- HP Jetdirect product you are calling about, for example, “J7942A”.
- Model number of the product, for example, “Jetdirect en3700”.
- Serial number of the product.
- Complete description of the problem.
- Proof of purchase of your product.
- Your shipping address.

Service billing (out of warranty)

When ordering a replacement unit for out-of-warranty service, you may be charged a repair cost. See your HP Authorized Dealer or your local HP Sales and Service Office representative. Or, you can call HP at (800) 227-8164 (USA only); prepare to supply shipping and billing addresses and payment information.

Service outside the USA

Customers outside the USA should contact their HP Authorized Dealer or HP Sales and Service Office to obtain information on prices, exchange unit availability, and instructions.

Chapter 6

Specifications, Safety, and Regulatory

Supported networking

Physical

- Supports unshielded or shielded twisted-pair cabling, using an RJ-45 connector, for:
 - IEEE 802.3i 10Base-T (Ethernet)
 - IEEE 802.3u 100Base-TX (Fast Ethernet)
- Requires a 10Base-T or 100Base-T network hub or concentrator that supports link beat (link test pulse) signals.

Supported network protocols

	TCP/I P (*)	DLC/LLC	IPX/SPX	Apple EtherTalk				
	direct mode	LPD	FTP printing	IPP		direct mode	Novell NetWare	
Microsoft Windows:								
98, Me	X	X	X	—	—	X	X	
NT 4.0				X	X			
2000, XP				X	—			
UNIX and Linux:								
HP-UX 10.20, 11.x	X	X	X					
HP MPE iX	X	—	—					
Sun Solaris 2.5x, 2.6, 7, 8 (SPARC systems only)	X	X	X					
SunOS 4.1.x	—	X	X					
IBM AIX 3.2.5 & later [requires software from NOS vendor]	X	X	X					
SCO UnixWare 7.x OpenServer 5.x	—	X	X					
SGI IRIX 6.x	—	X	X					
Digital UNIX 4.x	—	X	X					
Red Hat Linux 5.2	—	X	—					
Red Hat Linux 6.x, 7.x	—	X	X					
SuSE Linux 6.x	—	X	X					
Novell *								
NetWare 3.2		—		—			X	
NetWare 4.2, 5.x, 6		X		X			X	
NDPS	X						X	

Apple:								
Mac OS 9.04 & later		X	X					X
Artisoft LANtastic					X			
Any RFC1179-compliant system		X						
NOTES		May require software from NOS or other vendor		Requires software from NOS vendor				

*Other network protocols supported

- Telnet
- Bootp/DHCP
- WINS
- HTTP
- SLP
- IGMP
- iPrint
- NDS
- Bindery
- NCP
- SNMP v1, v2C

Advanced Security:

- SNMP v3
- SSL/TLS

Physical specifications

Interfaces

Port	Specification
Network	See network specifications above.
USB	Female “A” connector, compatible with USB version 2.0

Dimensions

Width	102 mm (4.08 in)
Length	131 mm (5.25 in)
Height	35 mm (1.40 in)

Weight

Weight	159 g (5.6 oz)
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Environmental specifications

	Operating environment	Storage environment
Temperature	0° C to 55° C (32° F to 131° F)	-40° C to 70° C (-40° F to 158° F)
Relative humidity	15% to 95% at 40° C (104° F)	15% to 90% at 65° C (149° F)
Altitude	4.6 km (15,000 ft)	4.6 km (15,000 ft)

Acoustic Noise: Not applicable

Electrical specifications

Power requirements

	Print server	Power module	
Input voltage	13 Vdc	See “input rating” for power modules below	
Nominal output voltage	n/a	13 Vdc	
Input current	220 mA @ 13 V	100 mA	Depends on particular power module
Max. output current	n/a	800 mA	
Frequency range	dc	50/60 Hz	Depends on particular power module
Power consumption	2.9 W	1.2 W	

Power modules

Countries/Regions	Part num.	Input rating	Output rating
Australia, New Zealand, Argentina			
	0950-3358	240 Vac 50 Hz	13 Vdc @ 800 mA
China			
	0950-3347	220 Vac 50 Hz	13 Vdc @ 800 mA
Continental Europe			
	0950-3349	230 Vac 50 Hz	13 Vdc @ 800 mA
Japan			
	0950-3352	100 Vac 50 Hz	13 Vdc @ 800 mA
South Korea			

	0950-3351	220 Vac 50 Hz	13 Vdc @ 800 mA
South Africa, India			
	0950-3354	220–250 Vac 50 Hz	13 Vdc @ 800 mA
United Kingdom, Singapore, Ireland, Hong Kong SAR			
	0950-3350	220–240 Vac 50 Hz	13 Vdc @ 800 mA
USA, Canada, Latin America, Taiwan			
	0950-3348	110–127 Vac 60 Hz	13 Vdc @ 800 mA

USB: Downstream power supplied

Compatible with USB 2.0

Electromagnetic specifications

Electromagnetic immunity

See the Declaration of Conformity (this chapter).

Electromagnetic emissions

- *USA:* FCC part 15 Class B
- *Canada:* ICES-003 (B)
- *Japan:* VCCI Class 1, 2
- *Europe:* CISPR-22/EN55022 Class B
- *Australia/New Zealand:* AS/NZA 3548
- *Russia:* GOST 292116
- *Taiwan:* BSMI Class A

Safety statements

Product complies with:

- IEC 950: (1991)+A1, A2, A3, A4 / EN60950 (1992)+A1, A2, A3, A4, A11
- UL 1950
- CSA 950
- NOM-019-SCIFI-1994, NOM-001-SCFI-1993

Regulatory statements

USA: FCC Class B Statement (U.S.A)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Declaration of Conformity

The Declaration of Conformity complies with ISO/IEC Guide 22 and EN45014. It identifies the product, manufacturer's name and address, and applicable specifications recognized in the European community:

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN45014

Manufacturer's Name: Hewlett-Packard Company
Manufacturer's Address: 8000 Foothills Blvd.
Rossville, CA 95747-5677
U.S.A.

declares that the product:

Product Name: ~~Jetdirect~~ on3700 External Print Server

Model Number: J7942A

conforms to the following Product Specifications:

Safety: EN60950 (1992) +A1,A2,A3,A4,AII / IEC 950 (1991) +A1,A2,A3,A4

EN60825-1 (1994) / IEC 825-1 (1993), Class 1

GB 4943 (1995)

EMC: EN 55022 (1998) / CISPR-22 (1997) Class B

GB 9254 (1988)

EN 55024 (1998)

IEC 61000-4-2 (1995); EN 61000-4-2 (1995)

IEC 61000-4-3 (1995); EN 61000-4-3 (1996)

IEC 61000-4-4 (1995); EN 61000-4-4 (1995)

IEC 61000-4-5 (1995); EN 61000-4-5 (1995)

IEC 61000-4-6 (1996); EN 61000-4-6 (1996)

IEC 61000-4-8 (1993); EN 61000-4-8 (1993)

IEC 61000-4-11 (1994); EN 61000-4-11 (1994)

EN61000-3-2 (1995)

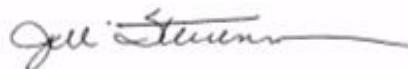
EN61000-3-3 (1995)

FCC Title 47 CFR, Part 15 Class B

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE marking accordingly.

This product was tested in typical configurations with Hewlett-Packard Co. products.
Rossville, March 4, 2003.



Jill Stevenson,

Product Regulations Manager

European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH,
Department TPE, Herrenberger Straße 130, D-71034 ~~Stuttgart~~ (FAX: 49-7031-143143).

Australia

This equipment complies with Australian EMC requirements.

Canada

This equipment complies with Canadian EMC Class B requirements.

Japan: VCCI Class B

この装置は、情報処理装置等電波障害自主規制協議会（VCCI）の基準に基づくクラスB情報技術装置です。この装置は、家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると受信障害を引き起こすことがあります。

取り扱い説明書に従って正しい取り扱いをして下さい。

Korea: EMI

사용자 안내문 (제작 기기)

이 기기는yth무용으로 전자파장비검정을 받은
기기로서, 주거지역에서는 물론 모든 지역에서
사용할 수 있습니다.

Taiwan: Class A

警告使用者：這是甲類的資訊產品，在居住的
環境中使用時，可能會造成射頻干擾，在這種
情況下，使用者會被要求採取某些適當的對策。

China: Chinese Safety Statement

HP 网络产品使用安全手册

使用须知

欢迎使用惠普网络产品，为了您及仪器的安全，请您务必注意如下事项：

1. 仪器要和地线相接，要使用有正确接地插头的电源线，使用中国国家规定的220V电源。
2. 避免高温和尘土多的地方，否则易引起仪器内部部件的损坏。
3. 避免接近高温，避免接近直接热源，如直射太阳光、暖气等其它发热体。
4. 不要有异物或液体落入机内，以免部件短路。
5. 不要将磁体放置于仪器附近。

警告

为防止火灾或触电事故，请不要将该机放置于淋雨或潮湿处。

安装

安装辅助管理模块，请参看安装指南。

保修及技术支持

如果您按照以上步骤操作时遇到了困难，或想了解其它产品性能，请按以下方式与我们联络。

如是硬件故障：

1. 与售出单位或当地维修机构联系。
2. 中国惠普有限公司维修中心地址：
北京市海淀区知春路49号希格玛大厦
联系电话：010-62623888 转 6101
邮政编码：100080

如是软件问题：

1. 惠普用户响应中心热线电话：010-65645959
2. 传真自动回复系统：010-65645735